

1642

RAW SEQUENCE LISTING DATE: 01/29/2002 PATENT APPLICATION: US/09/939,769 TIME: 12:01:29

Input Set : A:\39322226.app

```
ENTERED
 3 <110> APPLICANT: HOEFFLER, JAMES P.
        RUSSELL, MARIJANE
 6 <120> TITLE OF INVENTION: SINGLE CHAIN ANTIBODY FUSION REAGENTS THAT REGULATE
        TRANSCRIPTION IN VIVO
9 <130> FILE REFERENCE: 039322/0226
11 <140> CURRENT APPLICATION NUMBER: 09/939,769
12 <141> CURRENT FILING DATE: 2001-08-28
14 <150> PRIOR APPLICATION NUMBER: 08/728,890
15 <151> PRIOR FILING DATE: 1996-10-10
17 <160> NUMBER OF SEQ ID NOS: 96
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 29
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
        mitochondrial target signal
30 <400> SEQUENCE: 1
31 Met Ser Val Leu Thr Pro Leu Leu Leu Arg Gly Leu Thr Gly Ser Ala
                     5
34 Arg Arg Leu Pro Val Pro Arg Ala Lys Ile His Ser Leu
                                    2.5
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 20
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
        mitochondrial target signal
47 <400> SEQUENCE: 2
48 Met Glu Thr Asp Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly
49
51 Ser Thr Gly Asp
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 24
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
63 <400> SEQUENCE: 3
                                                                     24
64 tggaagaggc acgttctttt cttt
```

RAW SEQUENCE LISTING DATE: 01/29/2002 PATENT APPLICATION: US/09/939,769 TIME: 12:01:29

Input Set : A:\39322226.app

Output Set: N:\CRF3\01292002\1939769.raw

67 <210> SEO ID NO: 4 68 <211> LENGTH: 24 69 <212> TYPE: DNA 70 <213> ORGANISM: Artificial Sequence 72 <220> FEATURE: 73 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 75 <400> SEQUENCE: 4 76 gtccaccttg gtgttgctgg gctt 24 79 <210> SEQ ID NO: 5 80 <211> LENGTH: 24 81 <212> TYPE: DNA 82 <213> ORGANISM: Artificial Sequence 84 <220> FEATURE: 85 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 87 <400> SEQUENCE: 5 88 agactctccc ctgttgaagc tctt 24 91 <210> SEQ ID NO: 6 92 <211> LENGTH: 27 93 <212> TYPE: DNA 94 <213> ORGANISM: Artificial Sequence 96 <220> FEATURE: 97 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 99 <400> SEQUENCE: 6 100 tgaagattct gtaggggcca ctgtctt 27 103 <210> SEQ ID NO: 7 104 <211> LENGTH: 23 105 <212> TYPE: DNA 106 <213> ORGANISM: Artificial Sequence 108 <220> FEATURE: 109 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 111 <400> SEQUENCE: 7 112 caggtgcagc tggtgcagtc tgg 23 115 <210> SEQ ID NO: 8 116 <211> LENGTH: 23 117 <212> TYPE: DNA 118 <213> ORGANISM: Artificial Sequence 120 <220> FEATURE: 121 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer 123 <400> SEQUENCE: 8 124 caggtgcagc tggtggagtc tgg 23 127 <210> SEQ ID NO: 9 128 <211> LENGTH: 23 129 <212> TYPE: DNA 130 <213> ORGANISM: Artificial Sequence 132 <220> FEATURE: 133 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

135 <400> SEQUENCE: 9

139 <210> SEQ ID NO: 10

136 caggtccagc ttgtgcagtc tgg

23

23

23

23

23

23

RAW SEQUENCE LISTING DATE: 01/29/2002 TIME: 12:01:29 PATENT APPLICATION: US/09/939,769

Input Set : A:\39322226.app

- 140 <211> LENGTH: 23 141 <212> TYPE: DNA 142 <213> ORGANISM: Artificial Sequence 144 <220> FEATURE: 147 <400> SEQUENCE: 10
- 145 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 148 caggtcacct tgaaggagtc tgg
- 151 <210> SEQ ID NO: 11
- 152 <211> LENGTH: 23
- 153 <212> TYPE: DNA
- 154 <213> ORGANISM: Artificial Sequence
- 156 <220> FEATURE:
- 157 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 159 <400> SEQUENCE: 11
- 160 cagatcacct tgaaggagtc tgg
- 163 <210> SEQ ID NO: 12
- 164 <211> LENGTH: 23
- 165 <212> TYPE: DNA
- 166 <213> ORGANISM: Artificial Sequence
- 168 <220> FEATURE:
- 169 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 171 <400> SEQUENCE: 12
- 172 caggtgcagc tggtggagtc tgg
- 175 <210> SEQ ID NO: 13
- 176 <211> LENGTH: 23
- 177 <212> TYPE: DNA
- 178 <213> ORGANISM: Artificial Sequence
- 180 <220> FEATURE:
- 181 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 183 <400> SEQUENCE: 13
- 23 184 caggtgcagc tgttgcagtc tgg
- 187 <210> SEQ ID NO: 14
- .188 <211> LENGTH: 23
- 189 <212> TYPE: DNA
- 190 <213> ORGANISM: Artificial Sequence
- 192 <220> FEATURE:
- 193 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 195 <400> SEQUENCE: 14
- 196 caggtgcagc tgttgcagtc tgc
- 199 <210> SEQ ID NO: 15
- 200 <211> LENGTH: 23
- 201 <212> TYPE: DNA
- 202 <213> ORGANISM: Artificial Sequence
- 204 <220> FEATURE:
- 205 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 207 <400> SEQUENCE: 15
- 208 gaggtgcagc tggtgcagtc tgg
- 211 <210> SEQ ID NO: 16
- 212 <211> LENGTH: 23

23

23

RAW SEQUENCE LISTING DATE: 01/29/2002 PATENT APPLICATION: US/09/939,769 TIME: 12:01:29

Input Set : A:\39322226.app

- 213 <212> TYPE: DNA
- 214 <213> ORGANISM: Artificial Sequence
- 216 <220> FEATURE:
- 217 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 219 <400> SEQUENCE: 16
- 220 gaggtgcagc tgttggagtc tgg
- 223 <210> SEQ ID NO: 17
- 224 <211> LENGTH: 23
- 225 <212> TYPE: DNA
- 226 <213> ORGANISM: Artificial Sequence
- 228 <220> FEATURE:
- 229 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 231 <400> SEQUENCE: 17
- 232 caggtacagc tgcagcagtc agg
- 235 <210> SEQ ID NO: 18
- 236 <211> LENGTH: 54
- 237 <212> TYPE: DNA
- 238 <213> ORGANISM: Artificial Sequence
- 240 <220> FEATURE:
- 241 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 243 <400> SEQUENCE: 18
- 244 gtcctcgcaa ctgcggccca gccggccatg gcccaggtgc agctggtgca gtct 54
- 247 <210> SEQ ID NO: 19
- 248 <211> LENGTH: 56
- 249 <212> TYPE: DNA
- 250 <213> ORGANISM: Artificial Sequence
- 252 <220> FEATURE:
- 253 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 255 <400> SEQUENCE: 19
- 256 gtcctcgcaa ctgcggccca gccggccatg gcccaggtgc agctggtgga gtctgg 56
- 259 <210> SEQ ID NO: 20
- 260 <211> LENGTH: 56
- 261 <212> TYPE: DNA
- 262 <213> ORGANISM: Artificial Sequence
- 264 <220> FEATURE:
- 265 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 267 <400> SEQUENCE: 20
- 268 gtcctcgcaa ctgcggccca gccggccatg gcccaggtcc agcttgtgca gtctgg 56
- 271 <210> SEQ ID NO: 21
- 272 <211> LENGTH: 56
- 273 <212> TYPE: DNA
- 274 <213> ORGANISM: Artificial Sequence
- 276 <220> FEATURE:
- 277 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 279 <400> SEQUENCE: 21
- 280 gtcctcgcaa ctgcggccca gccggccatg gcccaggtca ccttgaagga gtctgg 56
- 283 <210> SEQ ID NO: 22
- 284 <211> LENGTH: 56
- 285 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 01/29/2002 PATENT APPLICATION: US/09/939,769 TIME: 12:01:29

Input Set : A:\39322226.app

- 286 <213> ORGANISM: Artificial Sequence
- 288 <220> FEATURE:
- 289 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 291 <400> SEQUENCE: 22
- 292 gtcctcgcaa ctgcggccca gccggccatg gcccagatca ccttgaagga gtctgg 56
- 295 <210> SEQ ID NO: 23
- 296 <211> LENGTH: 56
- 297 <212> TYPE: DNA
- 298 <213> ORGANISM: Artificial Sequence
- 300 <220> FEATURE:
- 301 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 303 <400> SEQUENCE: 23
- 304 gtcctcgcaa ctgcggccca gccggccatg gccgaggtgc agctggtgga gtctgg 56
- 307 <210> SEQ ID NO: 24
- 308 <211> LENGTH: 56
- 309 <212> TYPE: DNA
- 310 <213> ORGANISM: Artificial Sequence
- 312 <220> FEATURE:
- 313 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 315 <400> SEQUENCE: 24
- 316 gtcctcgcaa ctgcggccca gccggccatg gcccaggtgc agctgcagga gtcggg 56
- 319 <210> SEQ ID NO: 25
- 320 <211> LENGTH: 56
- 321 <212> TYPE: DNA
- 322 <213> ORGANISM: Artificial Sequence
- 324 <220> FEATURE:
- 325 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 327 <400> SEQUENCE: 25
- 328 qtcctcgcaa ctgcggccca gccggccatg gccgaggtgc agctgttgca gtctgc 56
- 331 <210> SEQ ID NO: 26
- 332 <211> LENGTH: 56
- 333 <212> TYPE: DNA
- 334 <213> ORGANISM: Artificial Sequence
- 336 <220> FEATURE:
- 337 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 339 <400> SEQUENCE: 26
- 340 gtcctcgcaa ctgcggccca gccggccatg gccgaggtgc agctggtgca gtctgg 56
- 343 <210> SEQ ID NO: 27
- 344 <211> LENGTH: 56
- 345 <212> TYPE: DNA
- 346 <213> ORGANISM: Artificial Sequence
- 348 <220> FEATURE:
- 349 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
- 351 <400> SEQUENCE: 27
- 352 gtcctcgcaa ctgcggccca gccggccatg gccgaggtgc agctgttgga gtctgg 56
- 355 <210> SEQ ID NO: 28
- 356 <211> LENGTH: 56
- 357 <212> TYPE: DNA
- 358 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/939,769

DATE: 01/29/2002

TIME: 12:01:30

Input Set : A:\39322226.app